

## Science GE DOK Alignment Chart

## PHYSICAL SCIENCE Grades 1-2

## GE 9-14

DOK & NECAP Release Item Codes	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice Items
<b>Enduring Knowledge: All living and non-living things are composed of matter having characteristic properties that distinguish one substance from another.</b>			
<b>DOK 2</b> <b>PS1(K-4)POC-2</b>	<b>S1-2:9 (DOK 2)</b> <b>Students demonstrate their understanding of the Properties of Matter by...</b> · Identifying, recording, and comparing characteristics of objects made of similar and different properties.	Science Concepts: a. Objects are made of one or more materials such as paper, wood, metal, or cloth. b. Similarities and differences in physical properties can be identified.	
<b>S1-2:10 Not assessed at this grade level.</b>			
<b>S1-2:11 Not assessed at this grade level.</b>			
<b>DOK 2</b> <b>PS1(K-4)POC-2</b>	<b>S1-2:12 (DOK 2)</b> <b>Students demonstrate their understanding of the States of Matter by...</b> · Identifying, describing, and comparing the state of matter of <b>solids</b> and <b>liquids</b> .	Science Concepts: a. <b>Solids</b> and <b>liquids</b> are states of matter and have properties that can be described. b. <b>Solids</b> have the properties of hardness, color, and ability to maintain shape. c. <b>Liquids</b> have properties of color, tendency to flow, ability to mix with other liquids, and the ability to take the shape of a container.	
<b>S1-2:13 Not assessed at this grade level.</b>			
<b>Enduring Knowledge: A transfer of energy can result in the physical change of state of a substance.</b>			
<b>DOK 2</b> <b>PS2(K-4)INQ + SAE-6</b>	<b>S1-2:14 (DOK 2)</b> <b>Students demonstrate their understanding of Physical Change by...</b> · Describing and reporting the change in properties when heat is applied to a <b>solid</b> or when heat leaves a <b>liquid</b> (e.g., water and ice).	Science Concepts: a. Heating and cooling (changes in temperature) can change states of matter. Water can be a <b>liquid</b> or a <b>solid</b> through the processes of <b>melting</b> and <b>freezing</b> .	

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## GE 15-22

DOK & NECAP Release Item Codes	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice Items
Enduring Knowledge: When matter undergoes a chemical change it turns into a new and different substance whose properties are different from the original. No matter how substances interact with one another, the total mass of the system remains the same.			
S1-2:15 Not assessed at this grade level.			
S1-2:16 Not assessed at this grade level.			
Enduring Knowledge: The nucleus of some atoms is unstable and may spontaneously decay.			
S1-2:17 Not assessed at this grade level.			
S1-2:18 Not assessed at this grade level.			
Enduring Knowledge: Everything is constantly moving; motion is relative, but the motion of an object can be described and predicted by tracing and measuring its position over time.			
DOK 2 PS3(K-4)INQ + SAE-7	S1-2:19 (DOK 2) Students demonstrate their understanding of Motion by...  · Investigating and describing how objects move in different ways.	Science Concepts: a. The position and movement of an object can be described as <b>fast, slow, speeding up, or slowing down</b> and as movement in a certain direction.	
	S1-2:20 Not assessed at this grade level.		
Enduring Knowledge (Force): Force is an influence that can change the motion of an object.			
DOK 2 PS3(K-4)INQ + SAE-7	S1-2:21 (DOK 2) Students demonstrate their understanding of Force by...  · Investigating and identifying how <b>pushing</b> or <b>pulling</b> moves or does not move an object.	Science Concepts: a. A force is a <b>push</b> or a <b>pull</b> . Force can change the motion of an object.	
	DOK 2 PS3(K-4)INQ + SAE-7	S1-2:22 (DOK 2) Students demonstrate their understanding of Gravitational force by...  · Observing and describing that different objects fall to the earth unless something is holding them up.	Science Concepts: a. Objects fall to the ground unless something holds them up.

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## Grades 1-2

## GE 23-29

DOK & NECAP Release Item Codes	GE Statement with Ceiling DOK	Science Concepts	Examples/Practice Items
<b>Enduring Knowledge:</b> Energy is necessary for change to occur. It is the ability of matter to bring about change. *There are many forms of energy. *The total energy in the universe is constant. *Energy can be transformed and transferred, but not destroyed (Conservation of Energy). *Energy transfers and transformations exhibit the characteristics of systems with inputs, processes and outputs, as well as connections to other systems.			
<b>DOK 2</b> <b>PS2(K-4)INQ +</b> <b>SAE-6</b>	<b>S1-2:23 (DOK 2)</b> <b>Students demonstrate their understanding of Heat Energy by...</b> · Predicting, experimenting, and observing how heat moving from one object to another can cause temperature changes.	Science Concepts: a. Heat can move from one object to another. b. The temperature of substances can change.	
<b>S1-2:24 Not assessed at this grade level.</b>			
<b>DOK 2</b> <b>PS3(K-4)INQ +</b> <b>SAE-8</b>	<b>S1-2:25 (DOK 2)</b> <b>Students demonstrate their understanding of Magnetism by...</b> · Investigating, observing and describing how magnets can make some things move without touching (e.g., determining the distance needed for a magnet to attract an object).	Science Concepts: a. <b>Magnets</b> can move some objects without touching them	
<b>S1-2:26 Not assessed at this grade level.</b>			
<b>S1-2:27 Not assessed at this grade level.</b>			
<b>S1-2:28 Not assessed at this grade level.</b>			
<b>DOK 2</b>	<b>S1-2:29 (DOK 2)</b> <b>Students demonstrate their understanding of Sound Energy by...</b> · Experimenting with different objects and observing and describing the vibrations of those objects, as well as the sounds that are made.	Science Concepts: a. Sound is caused by vibrating objects.	